

## INTERNATIONAL SEARCH REPORT

International	Classification No
PCT/	3/03483

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>	
IPC 7 H04M1/02	G06F3/033

Rec'd PCT/PTO 28 FEB 2005

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04M G06F H01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 588 210 A (HITACHI LTD) 23 March 1994 (1994-03-23) abstract column 2, line 18 -column 3, line 3 column 5, line 1 - line 23; figure 3 column 7, line 34 -column 9, line 31 column 10, line 34 -column 11, line 6; figure 8 column 11, line 36 -column 12, line 5 claim 1 ---	1-12
Y	column 2, line 18 -column 3, line 3 column 5, line 1 - line 23; figure 3 column 7, line 34 -column 9, line 31 column 10, line 34 -column 11, line 6; figure 8 column 11, line 36 -column 12, line 5 claim 1 ---	13-15
A	US 5 966 671 A (ROBERTS EARLE TIMOTHY ET AL) 12 October 1999 (1999-10-12) column 1, line 31 - line 38 column 2, line 35 - line 38 column 5, line 10 - line 56 --- -/-	1-15

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

8 December 2003

Date of mailing of the international search report

16/12/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Domínguez, I

## INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/ [REDACTED] 3/03483

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 647 037 A (NIPPON ELECTRIC CO) 5 April 1995 (1995-04-05) column 1, line 42 -column 2, line 26 ---	1-15
Y	WO 00 19625 A (ERICSSON INC) 6 April 2000 (2000-04-06) figure 7 ---	13,15
Y	WO 02 11439 A (ERICSSON TELEFON AB L M ;VANCE SCOTT (US); HUNT CHARLES (US)) 7 February 2002 (2002-02-07) abstract ---	14
A	EP 0 715 441 A (AT & T CORP) 5 June 1996 (1996-06-05) abstract column 4, line 3 - line 17 column 4, line 43 - line 47 figure 1 -----	1-15

# INTERNATIONAL SEARCH REPORT

International Application No  
 PCT/ [REDACTED] 03/03483

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0588210	A	23-03-1994	JP DE EP JP US US US US US US	3268467 B2 6090200 A 69331299 D1 69331299 T2 0588210 A1 3351399 B2 2000156730 A 5436954 A 6094586 A 5742912 A 2003194975 A1 6334049 B1 5937360 A 2002025830 A1	25-03-2002 29-03-1994 24-01-2002 14-08-2002 23-03-1994 25-11-2002 06-06-2000 25-07-1995 25-07-2000 21-04-1998 16-10-2003 25-12-2001 10-08-1999 28-02-2002
US 5966671	A	12-10-1999	CA CN FR GB	2192414 A1 1161606 A ,B 2743250 A1 2308938 A ,B	04-07-1997 08-10-1997 04-07-1997 09-07-1997
EP 0647037	A	05-04-1995	JP AU AU EP FI US	2630224 B2 7107001 A 692168 B2 7413894 A 0647037 A1 944491 A 5564078 A	16-07-1997 21-04-1995 04-06-1998 13-04-1995 05-04-1995 31-03-1995 08-10-1996
WO 0019625	A	06-04-2000	AU CN DE JP WO US	6394299 A 1320305 T 19983578 T0 2002526968 T 0019625 A2 6377827 B1	17-04-2000 31-10-2001 18-10-2001 20-08-2002 06-04-2000 23-04-2002
WO 0211439	A	07-02-2002	AU EP TW WO	7350901 A 1305945 A1 538639 B 0211439 A1	13-02-2002 02-05-2003 21-06-2003 07-02-2002
EP 0715441	A	05-06-1996	CA CN EP JP	2159138 A1 1131892 A 0715441 A1 8237338 A	29-05-1996 25-09-1996 05-06-1996 13-09-1996